

4.2.A. 0801020401.

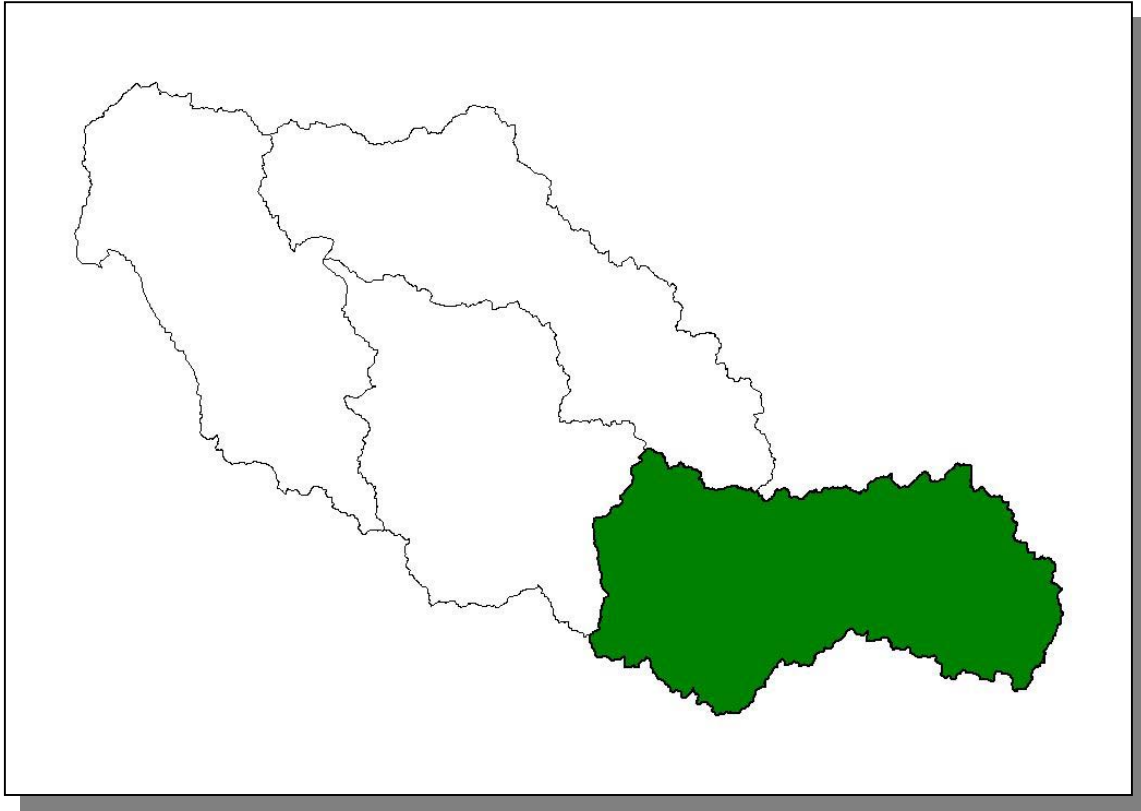


Figure 4-2. Location of Subwatershed 0801020401. All North Fork Forked Deer River HUC-10 subwatershed boundaries are shown for reference.

4.2.A.i. General Description.

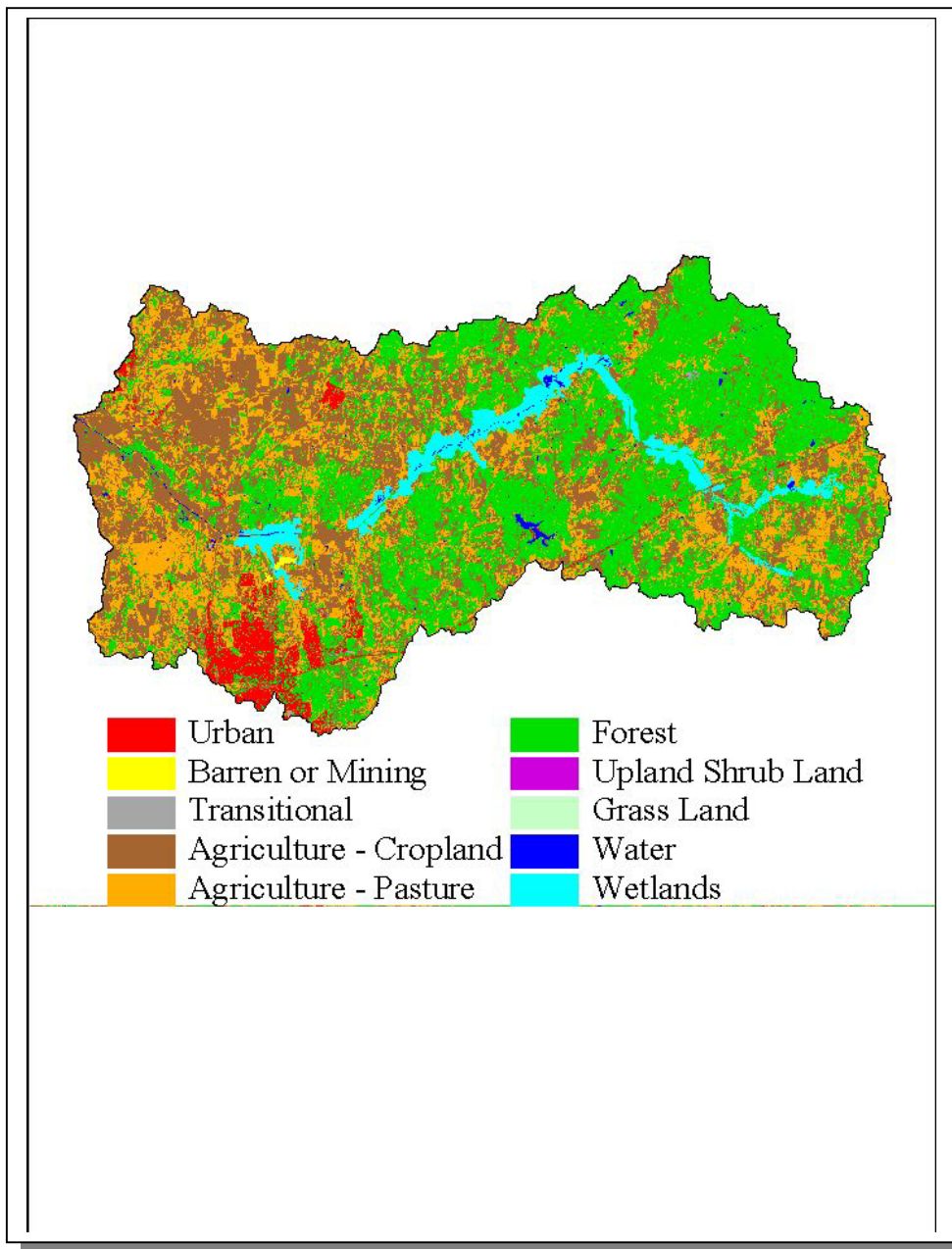


Figure 4-3. Illustration of Land Use Distribution in Subwatershed 0801020401.

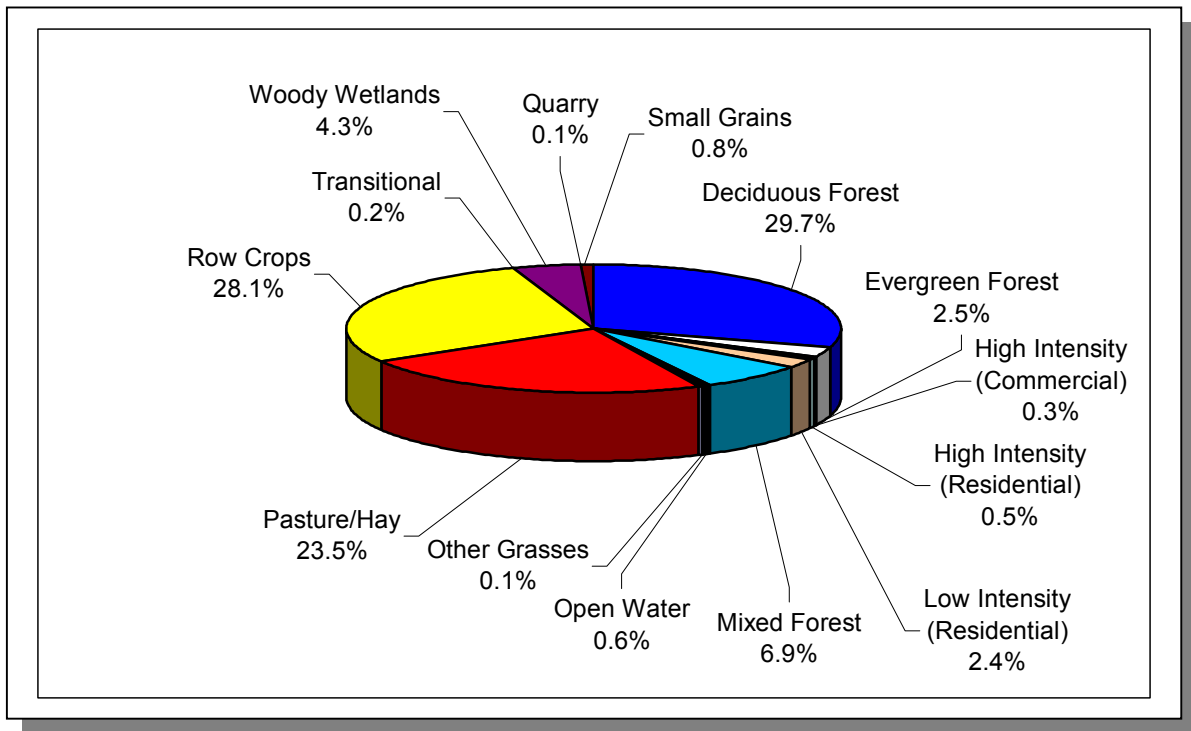


Figure 4-4. Land Use Distribution in Subwatershed 0801020401. More information is provided in NFFD-Appendix IV.

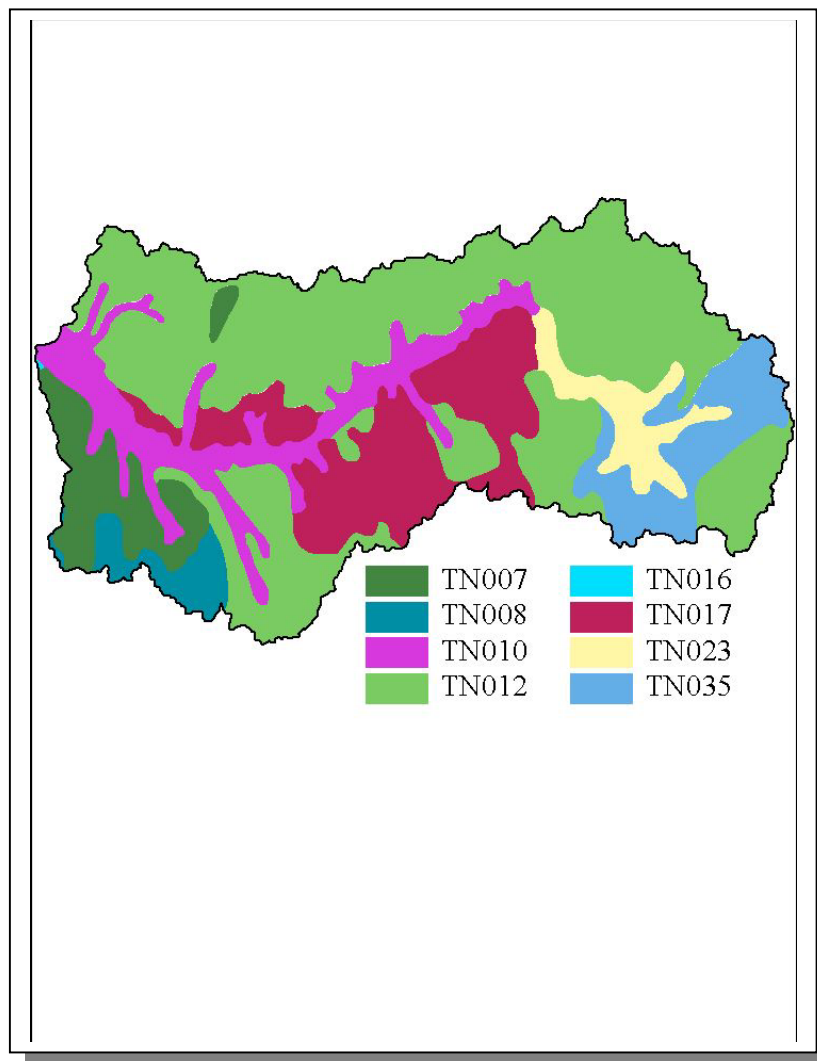


Figure 4-5. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0801020401.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN007	29.00	C	1.30	5.36	Silty Loam	0.48
TN008	2.00	C	1.38	5.20	Silty Loam	0.48
TN010	81.00	C	1.33	5.11	Silty Loam	0.44
TN012	1.00	C	2.52	5.13	Silty Loam	0.39
TN016	0.00	C	1.30	6.47	Silty Loam	0.44
TN017	0.00	B	1.81	5.26	Silty Loam	0.45
TN023	17.00	C	1.35	5.12	Silty Loam	0.42
TN035	16.00	C	1.46	4.97	Silty Loam	0.40

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0801020401. More details are provided in NFFD-Appendix IV.

County	COUNTY POPULATION		Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED		% CHANGE
	1990	1997 Est.		1990	1997	
Carroll	27,514	28,990	4.06	1,117	1,177	5.4
Crockett	13,378	13,841	0.71	94	89	4.3
Gibson	46,315	48,083	5.05	2,340	2,429	3.8
Henderson	21,844	24,000	13.65	2,981	3,275	9.9
Madison	77,982	84,942	24.54	19,135	20,843	8.9
Totals	187,033	199,856		25,667	27,822	8.4

Table 4-3. Population Estimates in Subwatershed 0801020401.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Humboldt	Madison	9,634	3,992	3,878	110	4
Jackson	Madison	48,949	20,739	20,197	512	30
Medina	Gibson	658	335	330	5	0
Total		59,241	25,066	24,405	627	34

Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0801020401.

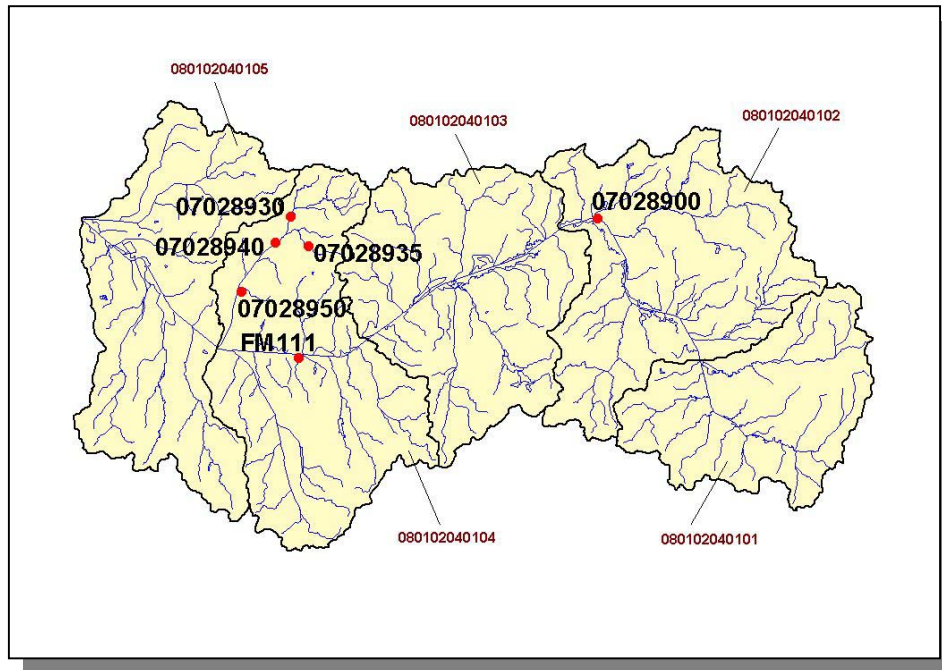


Figure 4-6. Location of Historical Streamflow Data Collection Sites in Subwatershed 0801020401. Subwatershed 080102040101, 080102040102, 080102040103, 080102040104, and 080102040105 boundaries are shown for reference. More information is provided in NFFD-Appendix IV.



Figure 4-7. Location of STORET Monitoring Sites in Subwatershed 0801020401. Subwatershed 080102040101, 080102040102, 080102040103, 080102040104, and 080102040105 boundaries are shown for reference. More information is provided in NFFD-Appendix IV.

4.2.A.ii. Point Source Contributions.

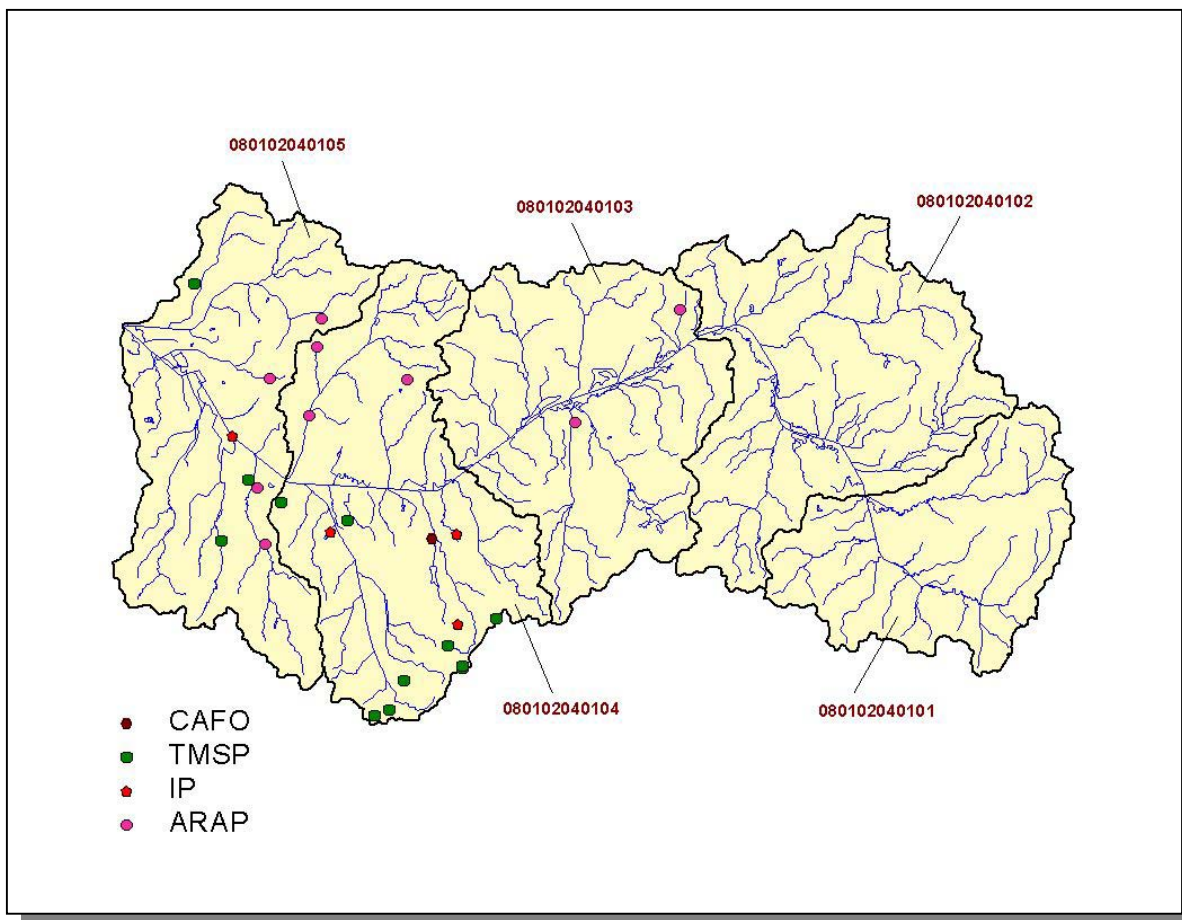


Figure 4-8. Location of Active Point Source Facilities in Subwatershed 0801020401. Subwatershed 080102040101, 080102040102, 080102040103, 080102040104, and 080102040105 boundaries are shown for reference. More information is provided in the following figures.

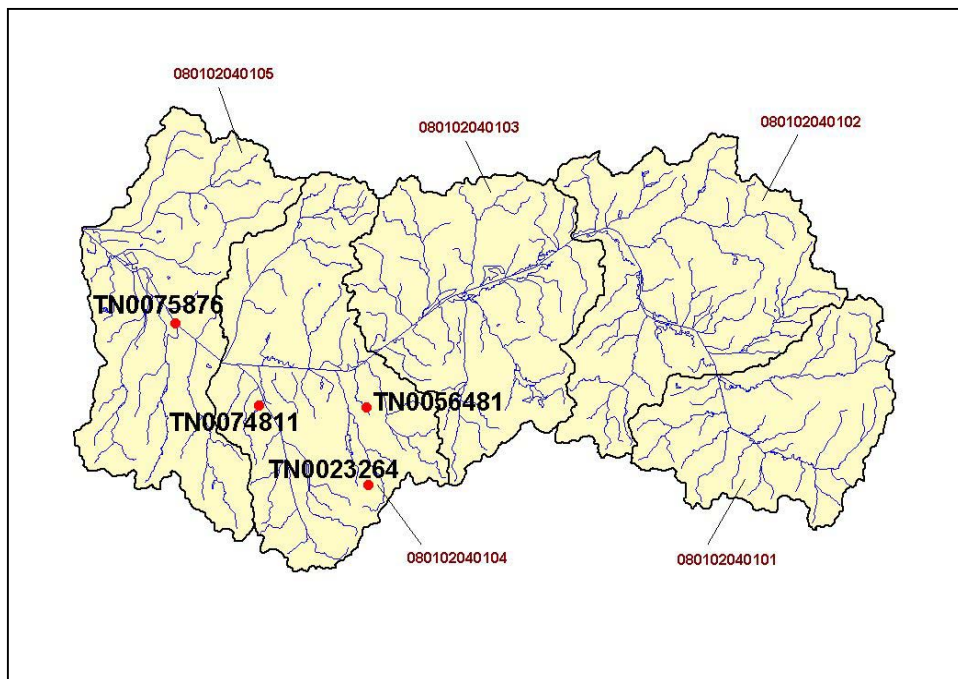


Figure 4-9. Location of Active Point Source Facilities (Individual Permits) in Subwatershed 0801020401. Subwatershed 080102040101, 080102040102, 080102040103, 080102040104, and 080102040105 boundaries are shown for reference. More information, including the names of facilities, is provided in NFFD-Appendix IV.

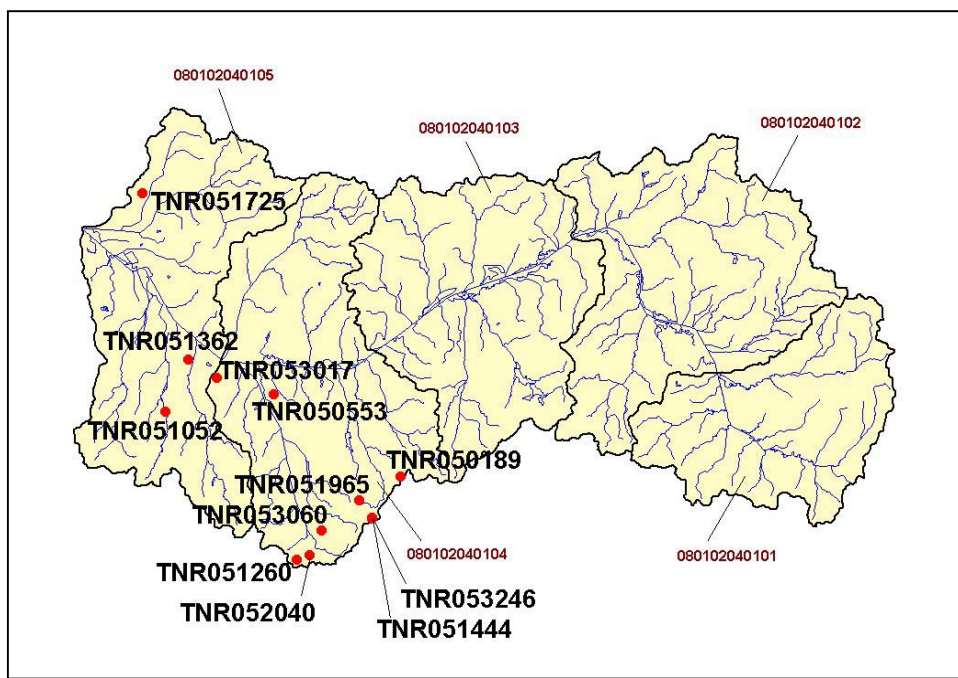


Figure 4-10. Location of TMSP Facilities in Subwatershed 0801020401. Subwatershed 080102040101, 080102040102, 080102040103, 080102040104, and 080102040105 boundaries are shown for reference. More information, including the names of facilities, is provided in NFFD-Appendix IV.

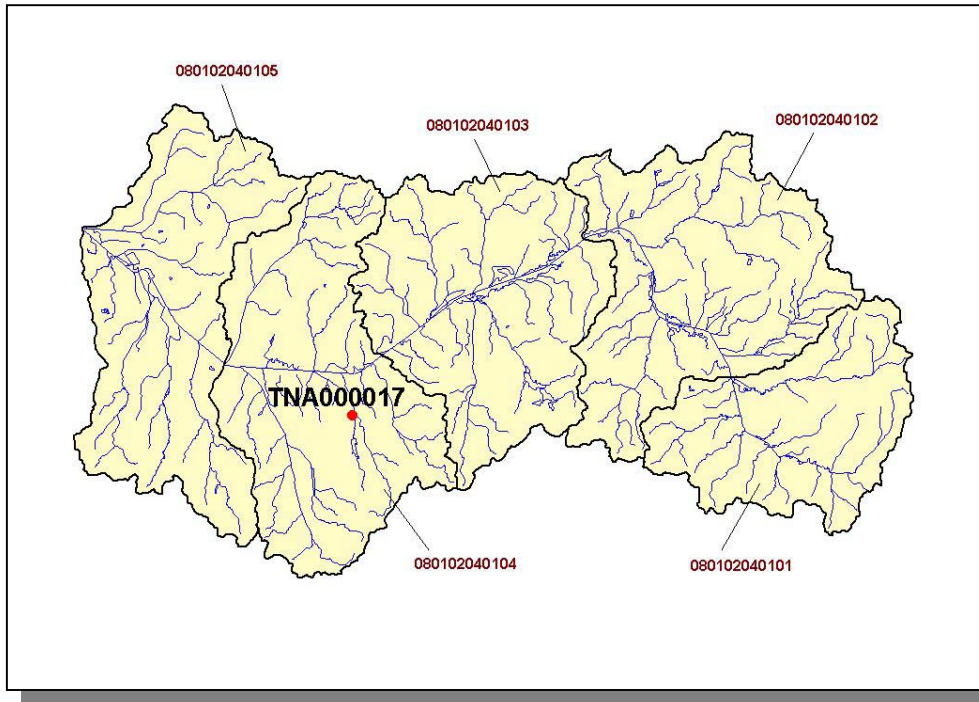


Figure 4-11. Location of CAFO Facilities in Subwatershed 0801020401. Subwatershed 080102040101, 080102040102, 080102040103, 080102040104, and 080102040105 boundaries are shown for reference. CAFO rules may be found at <http://cfpub.epa.gov/npdes/afo/cafofinalrule.cfm>. More information, including the names of facilities, is provided in NFFD-Appendix IV.

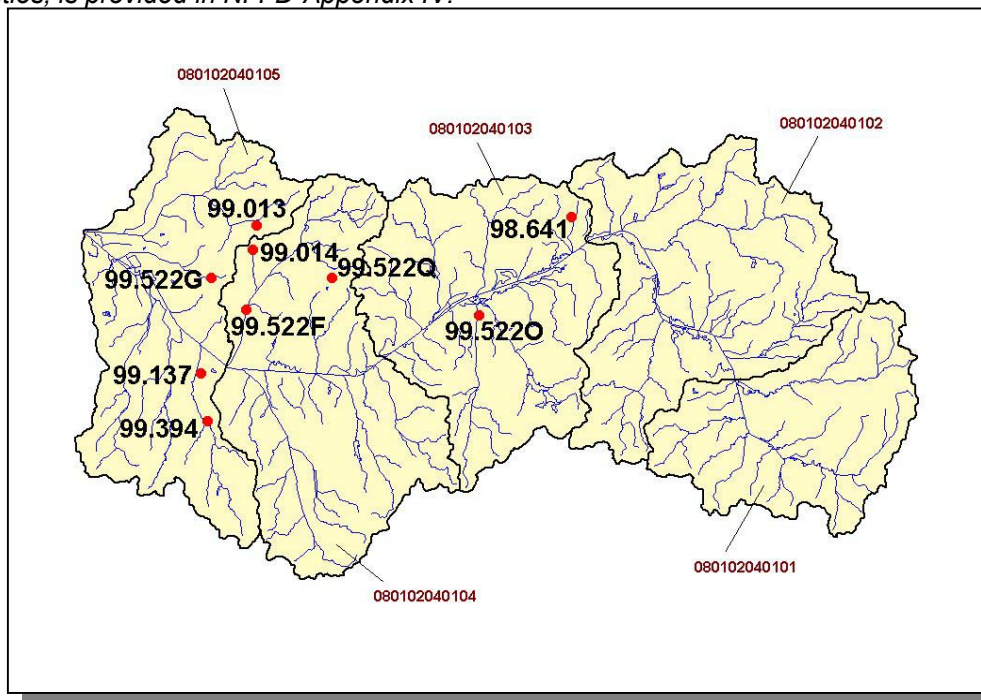


Figure 4-12. Location of ARAP Sites (Individual Permits) in Subwatershed 0801020401. Subwatershed 080102040101, 080102040102, 080102040103, 080102040104, and 080102040105 boundaries are shown for reference. More information, including the names of facilities, is provided in NFFD-Appendix IV.

4.2.A.ii.a. Dischargers to Water Bodies Listed on the 1998 303(d) List

There are three NPDES facilities discharging to water bodies listed on the 1998 303(d) list in Subwatershed 0801020401:

- TN0023264 (Nova School) discharges to an unnamed trib to Johnson Creek @ RM 4.4
- TN0074811 (Ameristeel) discharges to Dyer Creek @ RM 1.5, and to unnamed trib to Middle Fork Forked Deer River @ RM 32.5
- TN0075876 (Middle Fork STP) discharges to Middle Fork Forked Deer River @ RM 29.1

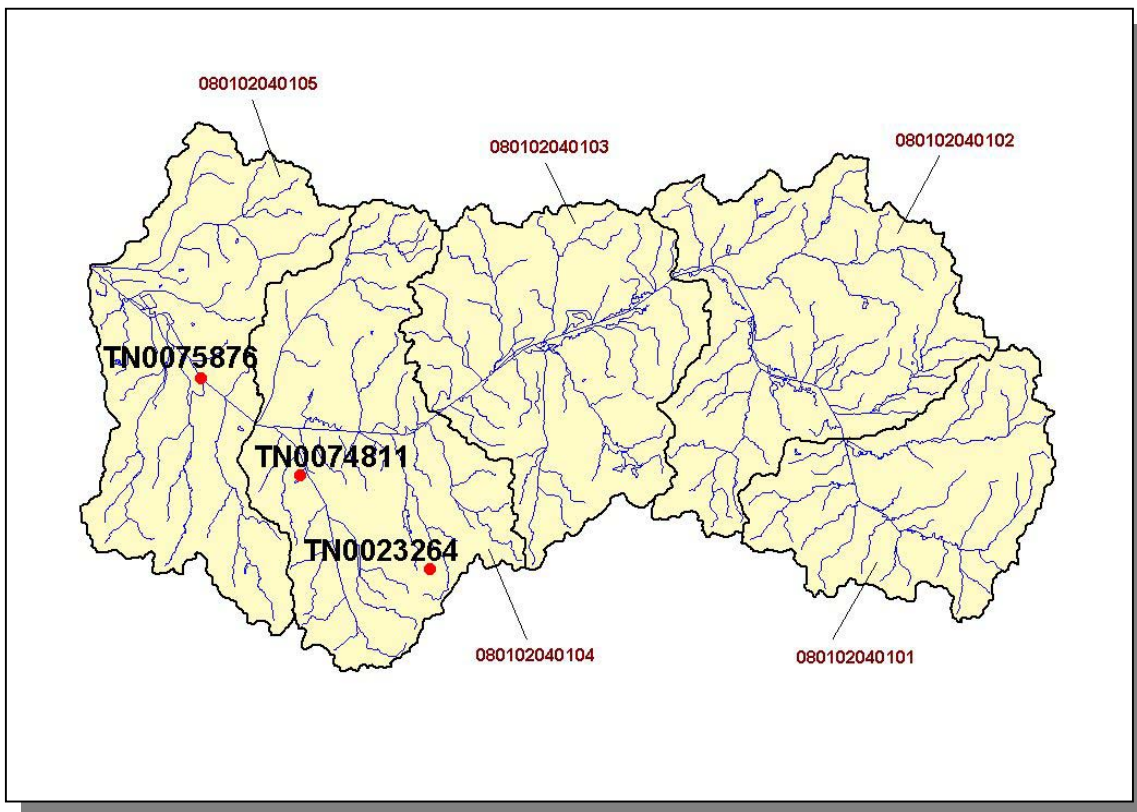


Figure 4-13. Location of NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 0801020401. Subwatershed 080102040101, 080102040102, 080102040103, 080102040104, and 080102040105 boundaries are shown for reference. The names of facilities are provided in NFFD-Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0023264			0.00		0.01200
TN0074811					0.47000
TN0075876	21.91	22.43	23.01	20.81	4.00000

Table 4-5. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0801020401. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	CBOD ₅	pH	WET	NH ₃	FECAL	Fe	TRC	SETTLEABLE SOLIDS	OIL and GREASE	TSS	DO
TN0023264	X	X		X	X		X	X		X	X
TN0074811		X	X			X	X		X	X	
TN0075876	X	X	X	X	X		X	X		X	X

Table 4-6. Parameters Monitored for Daily Maximum (mg/L) Limits for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0801020401. CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); WET, Whole Effluent Toxicity; TRC, Total Residual Chlorine; TSS, Total Suspended Solids; DO, Dissolved Oxygen.

4.2.A.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens	Chickens Sold	Hogs	Sheep
3,880	13,829	33	12	0	7,306	49

Table 4-7. Summary of Livestock Count Estimates in Subwatershed 0801020401. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Carroll	169.1	169.1	0.6	2.0
Crockett	15.1	15.1	0.3	1.6
Gibson	36.4	36.4	2.0	8.6
Henderson	158.5	158.5	3.6	12.8
Totals	379.1	379.1	6.5	25.0

Table 4-8. Forest Acreage and Annual Removal Rates (1987-1994) in Subwatershed 0801020401.

CROPS	TONS/ACRE/YEAR
Corn (Row Crops)	11.47
Soybeans (Row Crops)	8.18
Sorghum (Row Crops)	6.38
Cotton (Row Crops)	10.90
Grass (Hayland)	0.56
Legume (Hayland)	0.07
Grass (Pastureland)	0.52
Grass, Forbs, Legumes (Mixed Pasture)	2.29
Forest Land (Not Grazed)	0.00
All Other Close Grown Cropland	0.47
Other Vegetable and Truck Crops	7.81
Conservation Reserve Program Land	0.51
Other Land in Farms	0.35
Other Cropland (Not Planted)	3.93
Nonagricultural Land Use	0.00
Farmsteads and Ranch Headquarters	0.51

Table 4-9. Annual Estimated Total Soil Loss in Subwatershed 0801020401.